21,11,11 Z/034/61/000/008/001/005 E073/E335

18.1130

AUTHORS:

Vyklický, Miloslav, Löbl, Karel, Kabrhel, Adolf, Tama, Hanus, Číhal, Vladimír and Pražák, Milan

TITLE:

Influence of Molybdenum and Copper on the Properties

of Stainless Chromium

PERIODICAL: Hutnické listy, 1961, No. 8, pp. 553 - 560

According to data published in the literature (Ref. 2 - Copper in Cast Steel and Iron. Copper Development Association, London), high-alloy chromium steels containing 2-5% Si and 1.5-2% Cu have a high resistance to alum and are extensively used in the food-processing industry. An increased C content in chromium steels reduces their resistant to corrosion, particularly after unsuitable heat-treatment. However, low-carbon chromium steels cause difficulties in the manufacture of castings of complex shapes. Therefore, higher C contents are used and the unfavourable influence of the C content is compensated by adding Cu. Although the effect of No on chromium steels is known, the authors are not aware of any published information on the combined influence of Cu and Mo

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Influence of Molybdenum ....

on the properties of chromium steels. This is in spite of the fact that such steels are being manufactured, for instance the Czech steel Poldi-AKIBC (chemical composition: 0.12% C, 0.50% Mn, 0.25% Si, 16.15% Cr, 0.20% Mo and 1.75% Cu) and the ferritic chromium steel for use in the chemical industry, containing 0.6-0.8% C, max. 0.7% Mn, max. 2% Si, 28.0 - 30.0% Cr, containing 0.6-0.8% C, max. 0.7% Mn, max. 2% Si, 28.0 - 30.0% Cr, containing 0.6-0.8% C, max. 0.7% Mn and 2.0% Cu. The authors 2.0 - 2.5% Ni, 2.0 - 2.5% Mo and 2.0% Cu. The authors considered it interesting to investigate the influence of Cu and Mo on the properties of chromium steel and this paper contains the results of these investigations. A total of 11 heats was produced with chemical compositions varying between the following limits: C 0.6 - 0.11%; Cu 0 - 6.11%; Cu 0 - 6.11%; Cr 14.58 - 26.6% and Mo 0 - 3.91%. The heats were produced in a 20-kg high-frequency furnace, using as a charge low-carbon steel, low-carbon ferrochromium, low-carbon ferromolybdenum and copper. Of the mechanical properties only the hardness was copper. Of the mechanical properties only the hardness, both heats with higher copper contents showed a higher hardness, both

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	Z/054/61/000/008/001/005 E073/E335  in the as-cast and in the annealed states; metallographic tests showed that addition of Cu brought about pronounced tests showed that addition tests were carried out in structural changes. The corrosion tests were carried out in structural changes anumber of corrosive media, subdivided into the following anumber of corrosive media, subdivided into the following groups:  A. Media with free SO <sub>2</sub> 1. II <sub>2</sub> SO <sub>3</sub> ; 2%; 20 °C  2. NaHSO <sub>3</sub> ; 5%; 20 °C  3. lactic acid; 10%; 80 °C 4. oxalic acid; 10%; 80 °C 5. citric acid; 10%; 80 °C 6. tartaric acid; saturated solution; 80 °C 7. acetic acid; concentrated; 80 °C		
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Influence of Nolybdenum .... E073/E335

C. Inorganic non-oxiding acids

8. hydrochloric acid; 85; 20 °C
9. phosphoric acid; 65;; 80 °C

D. Inorganic Oxiding acids

10. nitric acid; 65;; 80 °C

A detailed analysis allowed grouping the time dependence of the weight loss due to corresion into three basic groups; the weight loss due to corresion into three basic groups; linear dependence (in hydrochloric acid and, in some cases, linear dependence (in hydrochloric acid and, in some cases, linear dependence (in hydrochloric acid and, in some cases, linear dependence (in hydrochloric acid and, in some cases, linear dependence with also in nitric acid at 80 °C); parabolic dependence with also in nitric acid at 80 °C); parabolic dependence with stoepness increasing with time (NaiiSO) solution) and, finally, stoepness increasing with time and characterised by a corrosion rate decreasing with time and characterised by a curve which flattens out. The corrosion tests have shown that steel containing 25% Cr. 2% No and 2% Cu had the highest that steel containing 25% Cr. 2% No and 2% Cu had the highest resistance to corrosion, which almost equall of the Czech resistance to corrosion, which almost equal of the Czech resistance to corrosion, which almost equal of the Czech resistance to corrosion, which almost equal of the Czech resistance of corrosion, which almost equal of the Czech resistance of corrosion, which almost equal of the Czech resistance of corrosion, which almost equal of the Czech resistance of corrosion, which almost equal of the Czech resistance of corrosion steels. In the latter steel, Card 4/8

24114

2/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

Mo improved the resistance to corrosion in solutions with free  $\mathrm{SO}_2$  , whilst Cu improved the resistance to corrosion in organic acids. On the basis of laboratory results, SONP Kladno produced two 50-kg heats in a high-frequency furnace with chemical compositions which proved the most favourable in the laboratory tests. The compositions of these heats (in %) were as follows: Cr Mo

0.13 0.53 0.37 0.019 0.021 15.52 2.05 2.01 Heat 0.10 0.54 0.30 0.026 0.017 24.75 1.75 1.95 . A 3829 The ingots from both heats were forged into 250 x 600 x 20 mm blanks and then rolled down to 1 mm thick sheet. These hotrolled sheets were then used an mechanical and corrosion tests and in weldability tests. The most favourable heat-treatment for these steels proved to be the following:

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Influence of Molybdenum ....

Heat A ... 800 °C/0.5 hrs/air " B ... 900 °C/0.5 hrs/air.

The mechanical properties of thus heat-treated steels do not differ substantially from the properties of semiferritic steels containing 17% Cr (CSN 17041). After this heat-treatment, both heats proved satisfactory in double-bending tests; in Erichsen tests both heats achieved the value of 7.9 mm. Welding tests were carried out by arc-welding in an argon welding tests were carried out by arc-welding in an argon atmosphere; the weldability of Heat A was better than that of Heat B. Potentiostatic polarisation curves were determined to obtain information on the corrosion behaviour of the steels. The following conclusions were reached: Additions of 2% Mo and 2% Cu proved the most suitable. The resistance-to-corrosion of steels with 17% Cr, 2% Mo and 2% Cu is higher than the resistance-to-corrosion of the same type of steel without Mo resistance-to-corrosion of the same type of steel without Mo and Cu. Very good results were obtained with steel containing 25% Cr and an addition of Mo and Cu which, for most corrosive

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Influence of Nolybdenum ....

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media, will have the same resistance-to-corrosion as the mustenitic CrNi steel CSN 17241. According to the achieved austenitic teel with the lower Cr content can be used for results, the steel with the lower Cr content can be used for results, the steel with the lower Cr content can be used for steel CSN 17041 cannot be used owing to its lower resistance-to-steel CSN 17041 cannot be used owing to its lower resistance-to-content (Heat B) can be used as a substitute for the steel CSN 17241 but the plasticity and weldability of this material CSN 17241 but the plasticity and weldability of this material CSN 17241 are not as good as those of steel CSN 17241.

are not as good as those of steel CSN 17241.

are references quoted There are 17 figures, 7 tables and 12 references; 6 Czech and There are 17 figures, 7 tables and 12 references; 6 Czech and There are 17 figures, 7 tables and 12 references; 6 Czech and There are 17 figures, 7 tables Handbook, pp. 462 - 465; are: Ref. 1 - Loring - Mexial Handbook, pp. 462 - 465; are: Ref. 2 - (quoted in text); Ref. 3 - Saklatvalla - Danmler, Ref. 2 - (quoted in text); Ref. 3 - Saklatvalla - Danmler, Trans. Am. Soc. Steel, Treat. 15, 1929; Ref. 4 - Danmloff - Trans. Am. Soc. Steel, Treat. 15, 1929; Ref. 4 - Danmloff - Trans. Am. Soc. Steel, Treat. New York and London, 1934.

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Z/054/61/000/008/001/005

Influence of Molybdenum ... E073/E335

ASSOCIATIONS: Státní výzkumný ústav materiálu a technologie v

Praze (State Research Institute for Materials
and Technology, Prague)

Státní výzkumný ústav ochrany materiálu
G.V. Aktimov a v Praze (G.V. Aktimov
State Research Institute for the Protection of
Materials, Prague)

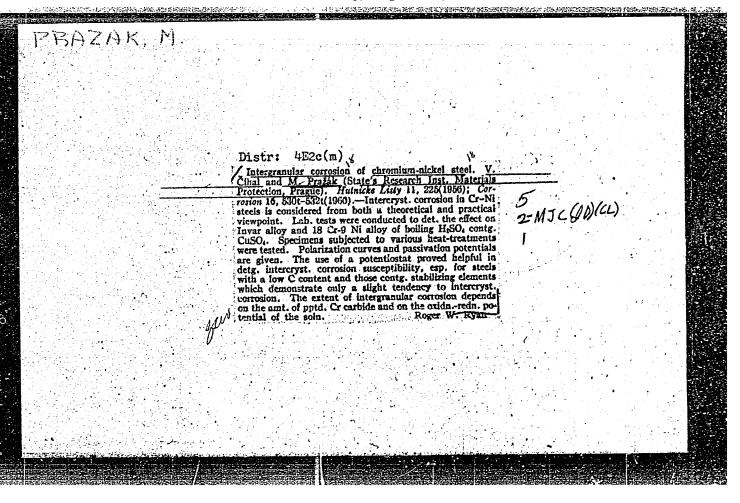
SUBMITTED: November 28, 1960

Card 8/8

PRAZAKIM. SURNAME, Given Names Country: Czechoslovakia Academic Degrees: [not given] State Research Institute for the Protection of Material Affiliation: (Staatliches Forschungsinstitut fuer Materialschutz), Prague Source: Prague, Collection of Czechoslovak Chemical Communications, Vol 26, No 11, November 1961, pp 2828-2837
"Corrosion Study XXIV. The Influence of Temperature Data: on the Passivating Characteristics of Corrosion Resistant Steels." Authors: PRAZAK, M SPANILY, J

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342



#### PRAZAK, M.

Corrosion studies. XXIII. Passivity of Sn75-Zn alloys. Coll Cz Chem 25 no.4:1126-1131 Ap \*60. (EEAI 9:12)

 Staatliches Forschungsinstitut für Materialschutz, Prag. (Corrosion and anticorrosives) (Tin-zinc alloys)

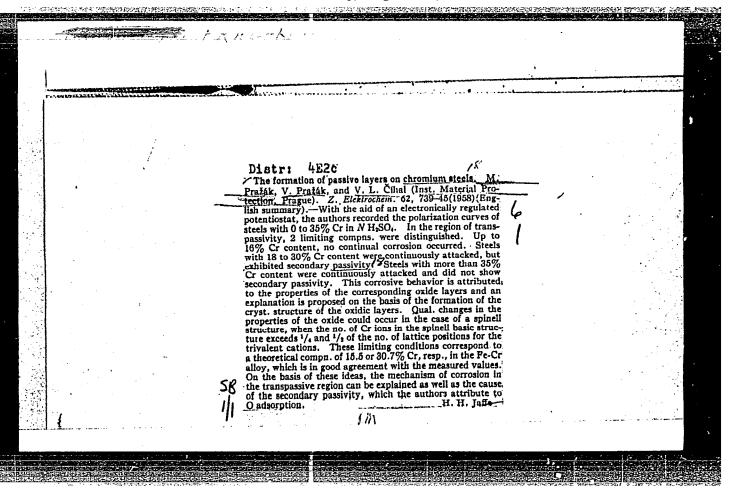
#### PRAZAK, Milan

Gastric hemangiomas. Rozhl.chir. 39 no.9:593-596 S 160.

1. Oddeleni pro chirurgii hrudni a brisni Ustredni vojenske nemocnice, prednosta MUDr. Bedrich Placak.

(STOMACH NEOPLASMS case reports)

(HEMANGIOMA case reports)

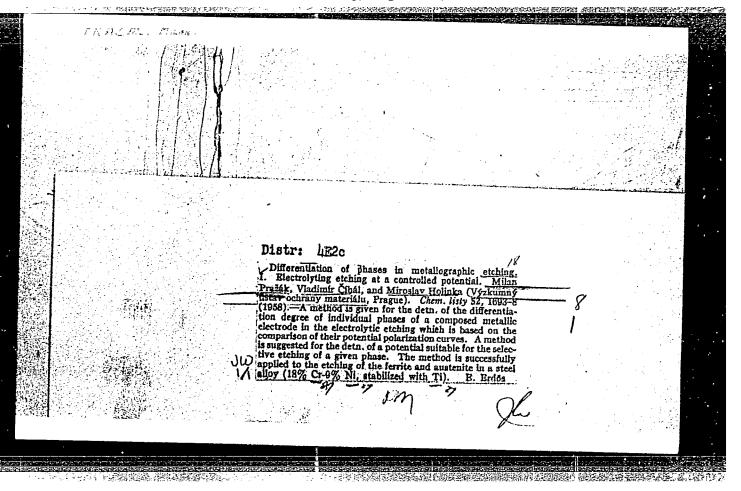


PRAZAK, M.; KOUBEK, A.

Mechanization of loading in machine tools. p. 431

STROJIRENSKA VYROBA. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia. Vol. 7, No. 10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959 Uncl.



## PRAZAK, Mieczyslaw; PYTASZ, Marian

Statistical analysis of the excretion of ammonia, urea and glucose and Klisiecki's renal theory. Acta physiol.polon. 12 no.1:87-103 Ja-F '60.

1. Z Zakladu Matematyki W.S.R. we Wroclawiu. Kierownik: doc.dr R. Hohenberg. Z Zakladu Fizjologii A.M. we Wroclawiu. Kierownik: prof.dr A. Klisiecki.

(AMMONIA urine) (UREA urine) (GLUCOSE urine)

CZECHOSLOVAKIA/Solid State Physics - Phase Transition.

Ε

Abs Jour

: Ref Zhur Fizika, No 11, 1959, 24924

Author

: Prazak, M., Cihal, V., Holinka, M.

Inst

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Title

: On the Differentiation of Structural Phases During

Metallographic Etching. I: Electrolytic Etching with

Constant Potential.

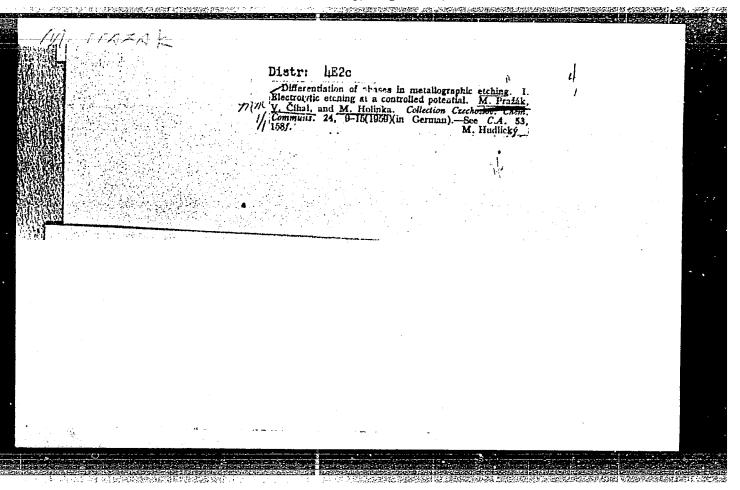
Orig Pub

: Collect. Czechosl. Chem. Communs. 1959, 24, No 1, 9-15

Abstract

: Translated from Chem. listy, 1958, 52, 1693.

Card 1/1



PRAZAK, M.

Modernization of the U-type grinding machines. p.224. (Strojirenska Vyroba, Vol. 5, No. 5, May 1957, Prava, Czechoslovakia)

SO: Monthly List of East Furopean Accessions (EEAL) LC. Vol.  $\ell$ , No. 9, Sept. 1967. Uncl.

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Inng inflammation in the postoperative period. Rozhl. chir. 37 no.3: 186-190 Mar 58.

1. Oddeleni pro chirurgii hrudni a brisni Ustredi vojenske nemocnice prednosta B. Placak.

(PNSUMONIA

postop. (Cz))

(SUHGERY, OPERATIVE, compl.

postop. pneumonia (Cz))
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TRAILE HILLAN

CZECHOSLOVAKIA/Electrochemistry

B-12

Abs Jour: Ref Zhur - Khimiya, No 8, 1957, 26304

Author : Milan Prazak

Title : Potentiostat and Some Problems of Polarization of Solid Electrodes

Orig Pub: Slaboproudy obzor, 1956, 17, No 4, 237-240

measurement by the superposition of the voltage taken with a potentiograph were analysed. On curves with a continuous current rise, only a potential crop on the electrode under study in the amount of the magnitude of the voltage drop in the measuring circuit is observed. On curves with a negative characteristics, this method fails to measure the region of the current drop with the potential rise (passivation), because it proves to be instable. An electron potentiostat constructed

Abstract : The causes of the distortion of polarization curves at their

by the author is described; this potentiostat is provided with photographic recording of polarization curves be means of a cathode oscillograph. The potential of the electrode under study is measured in respect to a comparison electrode, and the resistance of the measuring circuit is very little (about 0.3 ohm). The current strength may be 100 ma in each

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CZECHOSLOVAKIA/Electrochemistry

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Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26304

direction, or 200 ma in one direction. Examples of polarization curves showing the applicability of the potentiostat for the study of corrosion of metals are given. The potentiostat can maintain the potential stable with the precision of 2 to 3 mv in the duration of 15 min.

Card : 2/2

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

#### CIA-RDP86-00513R001342

The Tipetian Column CZECHOSLOVAKIA /Corrosion - Protection from Corrosion J, : Ref Zhur - Khimiya, No 2, 1957, 6855 Abs Jour Author Prazak Milan, Prazak Vilem Inst Title : Passivity and Corrosion Resistance of Stainless Steel. Orig Pub : Hutnicke listy, 1956, 11, No 2, 91-98 : By plotting the polarization curves a study is made of the mechanism of passivation, primarily of chromium-al-Abstract loy stainless steel, Card 1/1

B-12

FRAZAK, M

Category: Czechoslovakia

Abs Jour: R Zh--Kh, No 3, 1957, 7686

Author : Prazak, M. and Prazak, V.

: Not given Inst Title

: Investigation of Corrosion. II. The Effect of the Electrical Properties of the Electrode on the Measurement of the Potential During Polarization with an Intermittent Current. III. Anode Passivation of Iron

and Cathode Passivation of Magnetite.

Orig Pub: Chem. Listy, 1955, Vol 49, No 3, 294-301; No 8, 1139-1143 (published in

Czech); Sb. Chekhosl. Khim. Rabot, 1956, Vol 21, No 1, 63-72, 73-78

(published in German with a Russian summary)

Abstract: II. With a view towards the investigation of the effect of the electri-

cal properties of the interface between a solid electrode (e) and an electrolyte on the intrinsic electrochemical potential (EP) of E during polarization in an intermittent current, the appropriate oscillograms have been recorded for anode-polarized Sb and Al electrodes and 0.25M  ${
m NaHCO_3}$  and for an Fe electrode in 0.1M  ${
m NaNO_2}$  as well as for specially

Card : 1/3 -20-

Category: Czechoslovakia

Abs Jour: R Zh--Kh, No 3, 1957, 7688

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between the equilibria Fe/FeO and FeO/Fe<sub>2</sub>O<sub>3</sub>, both Fe and I dissolve in H<sub>2</sub>SO<sub>4</sub>. At more negative potentials, Fe<sup>3</sup> is stable; I is stable at more positive potentials. However, even in the passive state Fe and I dissolve slowly; the corrosion currents correspond to the diffusion rate or to the rate of the solid phase reaction. For Communication I see RZnKhim, 1956, 50361.

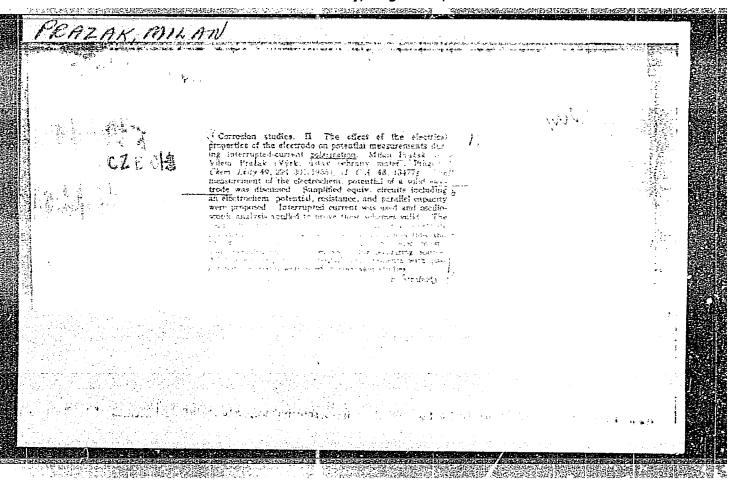
Card : 3/3

-22-

PRAZAK, M.

Modernization of the U type grinding machines. p. 179. (Strojirenska Vyroba. Praha. Vol. 5, no. 4, Apr. 1957.)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, no. 7, July 1957. Uncl.



PRACAK, 47

GDR/Physical Chemistry - Electrochemistry

B-12

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30655

Author : Prazak, M., Prazak, V., Cihal, V.

Inst: Not given

Title : The Structure of the Passivating Films Formed

on Chromium Steels

Orig Pub: Z Elektrochem, 1958, No 6-7, 739-745

Abstract: The authors have recorded the anodic polarization

curve of chromium steels (CS) containing from 0 to 35% Cr in 1 N H<sub>2</sub>SO<sub>4</sub>. The curves were recorded with the potentiostat described in an earlier report (RZhKhim, 1957, 263O<sup>4</sup>) permitting a rate of voltage change of 0.017 v/sec / sic\_7. The basic measurements were made in the potential range 1.0-2.0 v (standard hydrogen electrode'; in which 2 types of processes were observed:

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GDR/Physical Chemistry - Electrochemistry

B-12

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30655

overpassivation (OP), i.e., dissolution with the formation of chromate ions, and the inhibition of that process, secondary passivation. In the opinion of the author secondary passivation results from the adsorption of oxygen evidence for which is supplied by the results from measurements of the impedance of the electrode (appearance of a maximum capacitance at 4 1.81 v; the height of the maximum increases when the frequency of the applied a-c current increases). At Cr contents of less than 16% the polarization curves do not show a section corresponding to CP and the rate of dissolution remains practically constant up to the \for 02 evolution. At Cr contents of 18-30% both op and secondary passivation are observed; the onset of the latter is made more difficult when the Cr

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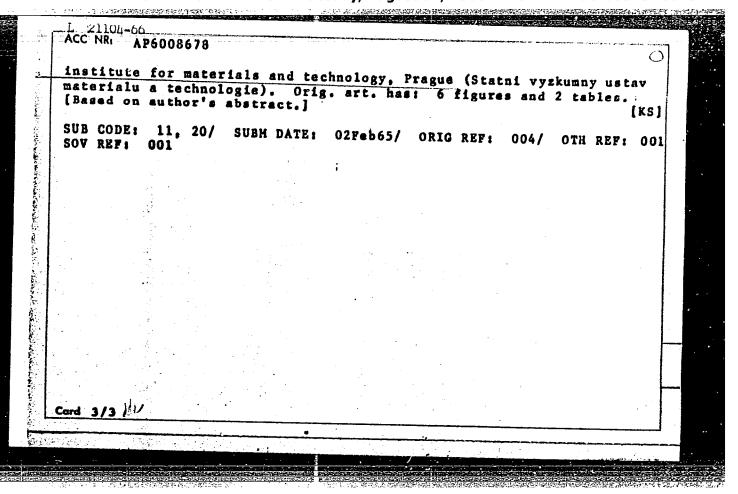
TIP(c) ID/IG/WB EWA(d)/EWP(t) 2110h-66 CZ/0065/65/000/005/0421/0430 SOURCE CODE: (N)XP6008678 ACC NR. AUTHOR: Tousek, Jaromir-Toushek, Yaromir; Cihal, Vladimir-Chigal, Vladimir; Prazak, Hilan-Prazhak, Hilan ORG: Institute for the Properties of Hetals CSAV, Brno (Ustav vlastnosti kovu CSAV); State research institute for the protection of materials G. V. Akimov, Prague (Statni vyzkumny ustav ochrany materialu) ÷ TITLE: The problem of point corrosion of Cr-Ni steels modified by The Care Brown Care Blanca 401. 77 KD molybdenum 27 SOURCE: Kovove materialy, no. 5, 1965, 421-430 TOPIC TAGS: steel, austenitic steel, corrosion, corrosion resistance, molybdenum, chromium content, annealing ABSTRACT: The resistance of austenitic Cr-Ni steels (1Cr17Ni12Mo2Ti) against point corrosion rises with increasing Mo and Cr contents and falls with increasing content of Ti. The favorable effect of molybdenum is first felt when its concentration is higher than 2%. The rising concentration of chromium in steel increases its resistance against point attack up to a specified limit. In steels subjected to solution annealing, the resistance against corrosion increases with rising Cr content up to 18%. Further increase of Cr concentration does 2 Card 1/3

L 21104-66 ACC NR: AP6008678

not improve the resistance of these steels to point attack. obtained with steels which had been subjected to various heat treatments indicate that specimens which had been subjected to solution annoaling (1100C/30 min/water) were maximally resistant to point Specimens which had been only heat worked were less resistant, and the least resistant to point corrosion were the specimens annealed at 900C. Under specified conditions (0,6 N HCl  $\pm$  0,4 N H<sub>2</sub>SO<sub>4</sub>), the zone of transpassivity on potentiodynamic curves in potential polarization of these steel specimens containing more than 15% Cr occurs. In this zone, point as well as uniform corrosion takes place. On steels containing less than 17% Cr. point attact is present even at potentials under which the reactions leading to secondary passivity, start to act. With increasing Cr content, the value of the potential under which the point attack may occur decreases. shifting is probably caused by deposition of corroded particles and by adsorption of chromate ions on the surface of the electrode. Point corrosion ceases before the potential attains the value at which the current density in the transpassive zone attains its maximum value on steels with higher chromium content than 17-18%. On the potentiodynamic curves, the extinction of point corrosion is evident from the transient drop in current density even before secondary passivity is attained. The paper was reviewed by Karel Lobl, State research

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Card 2/3



PRAZAK, V.

GEOGRAPHY & GEOLOGY

PERIODICAL: CESKOSLOVENSKA ETHNOGRAFIE. Vol. 6, no. 4, 1958.

PRAZAK, V. Basic types of ground plans for folk buildings in Czechoslovakia. Pt. II. (Conclusion) p. 331.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 2 February 1959, Unclass.

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JUREN, O. MUDr.; KUBISTA, Z., Ing.; PRAZAK, V. Ing.

Value of potassium bichromate test in cement eczema. Pracovni lek.
9 no.4:330-332 Sept 57.

1. I. dermatologicka klinika, Praha, prednosta prof. Dr. K. Gawalowski
A Vyskumny ustav ochrany materialu, Praha, prednosta Ing. N. Roubal.

O. J., Praha 2, Koubkova 10.

(DERMATITIS CONTACT, etiol. & pathogen.

chromium in cement workers, potassium bichromate test

(CZ))

(CHROMIUM, inj. eff.

contact dermatitis in cement workers, potassium bichromate test (CZ))
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GDR/Physical Chemistry - Electrochemistry

B-12

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30655

Author: Prazak, M., Prazak, V., Cihal, V.

Inst : Not given

Title : The Structure of the Passivating Films Formed

on Chromium Steels

Orig Pub: Z Elektrochem, 1958, No 6-7, 739-745

Abstract: The authors have recorded the anodic polarization

curve of chromium steels (CS) containing from 0 to 35% Cr in 1 N H<sub>2</sub>SO<sub>4</sub>. The curves were recorded with the potentiostat described in an earlier report (RZhKhim, 1957, 2630<sup>4</sup>) permitting a rate of voltage change of 0.017 v/sec / sic /. The basic measurements were made in the potential range 1.0-2.0 v (standard hydrogen electrode'; in which 2 types of processes were observed:

Card 1/3

GDR/Physical Chemistry - Electrochemistry

B-12

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30655

overpassivation (OP), i.e., dissolution with the formation of chromate ions, and the inhibition of that process, secondary passivation. In the opinion of the author secondary passivation results from the adsorption of oxygen evidence for which is supplied by the results from measurements of the impedance of the electrode (appearance of a maximum capacitance at \( \frac{1}{2} = 1.81 \) v; the height of the maximum increases when the frequency of the applied a-c current increases). At Cr contents of less than 16% the polarization curves do not show a section corresponding to CP and the rate of dissolution remains practically constant up to the \( \frac{1}{2} \) for O2 evolution. At Cr contents of 18-30% both OP and secondary passivation are observed; the onset of the latter is made more difficult when the Cr

Card 2/3

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GDR/Physical Chemistry - Electrochemistry

B-12

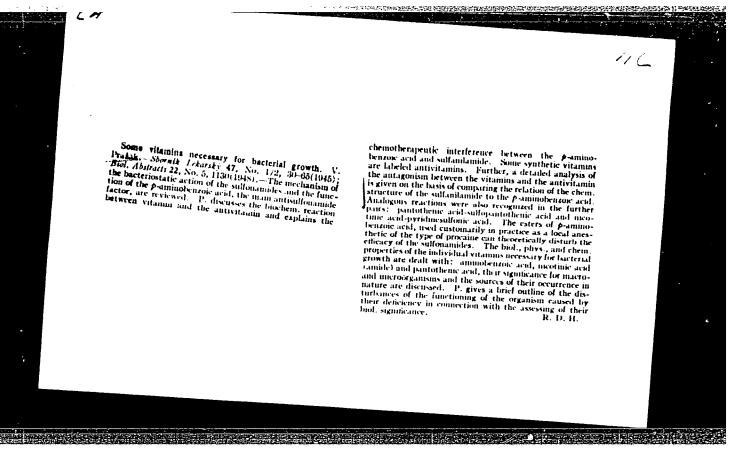
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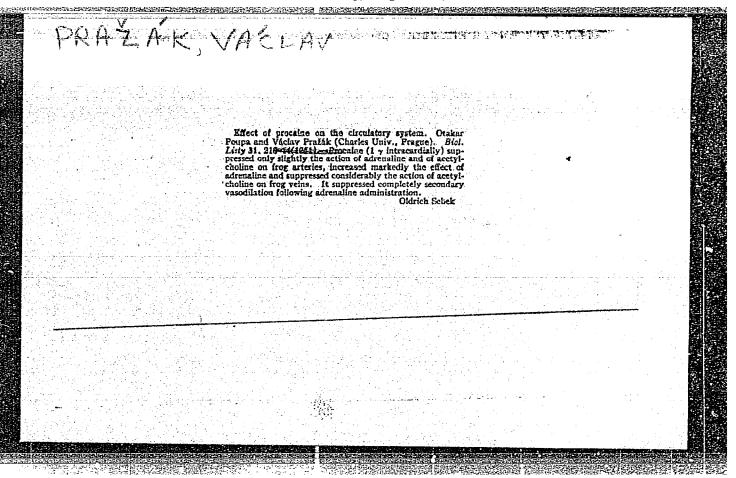
content is increased and at Cr contents of over 35% secondary passivation is completely absent. The authors are of the opinion that the corrosion resistance of CS is determined by the characteristics of the passivating oxide layer, which has a spinel structure (RZhKhim, 1957, 7688) and a composition corresponding to Fe2+ (Cr, Fe)2 O4. When the Cr content of the oxide layer is varied continuously by appropriate changes in the composition of the CS, discreet variations are observed in the properties of the oxide layer. -- V. Knyazheva

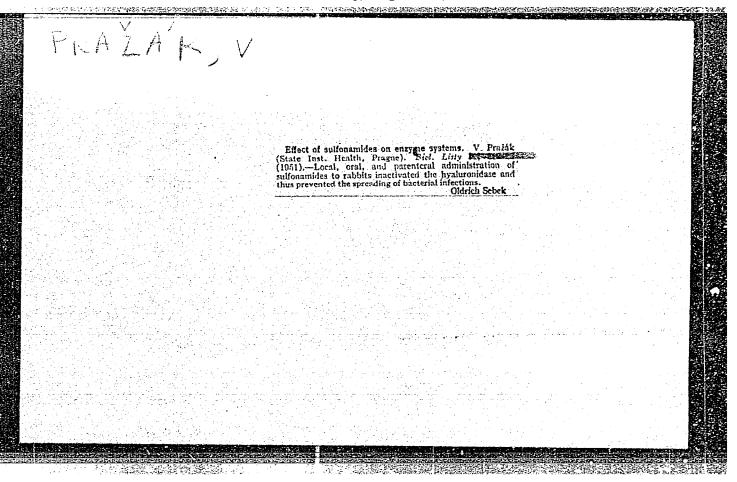
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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

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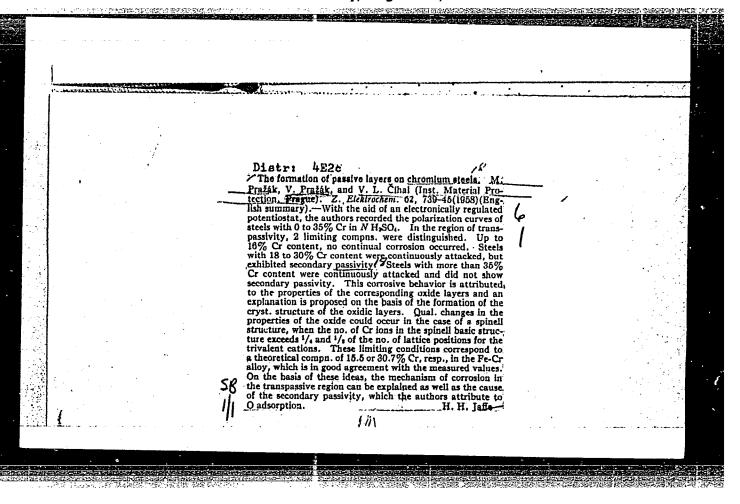


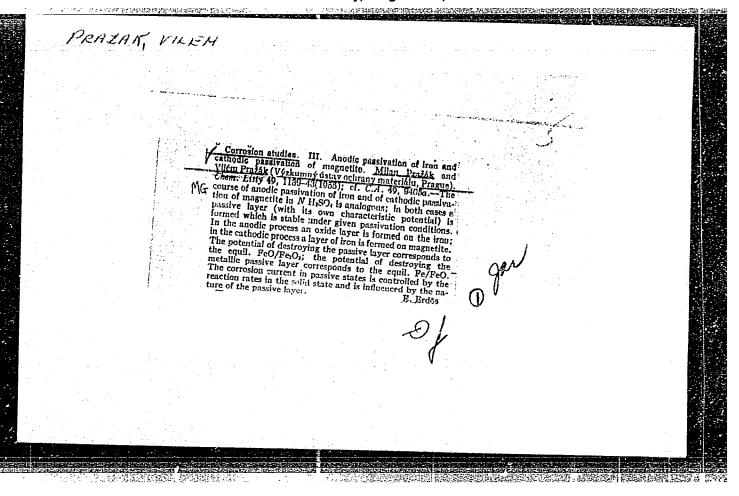
PRAZAK, V.; SOYKA, O.; AMCHOVA, E.

Effect of chemotherapeutic agents and antibiotics on blood coagulation.

Cesk. lek. cesk. 92 no.40:1096-1098 2 Oct 1953. (CIML 25:4)

1. Of the Third Internal Clinic (Head--Prof. J. Charvat, M.D.) and of the First Institute of Medical Chemistry (Head--Prof. K. Kacl, M.D.), Charles University, Prague.

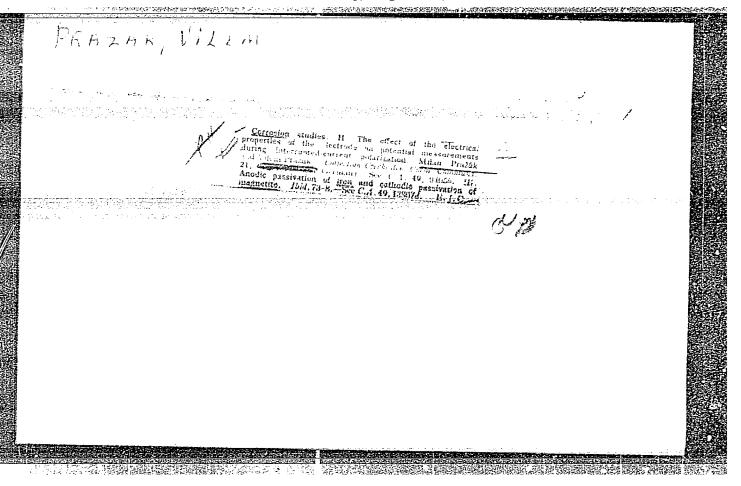




Prazak, V.

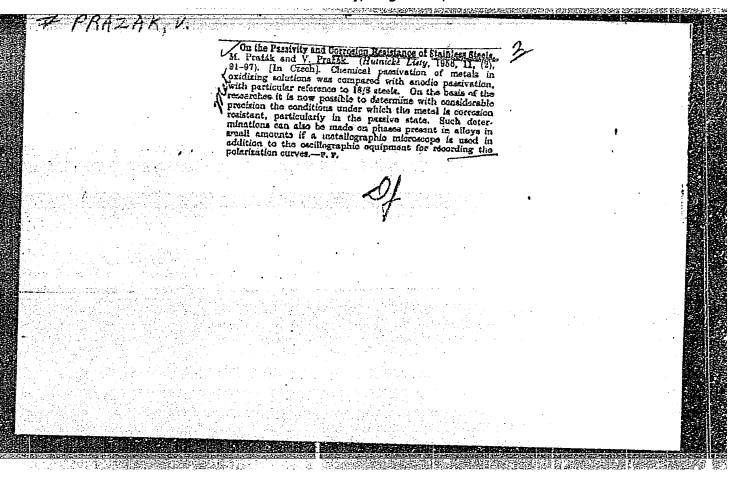
Passivity and corrosion resistivity of stainless steel. p. 65. HUTNICKE LISTY. (Ministerstvo hutniho prumyslu a rudnych dolu) Brno. Vol. 11, no. 2, Feb. 1956.

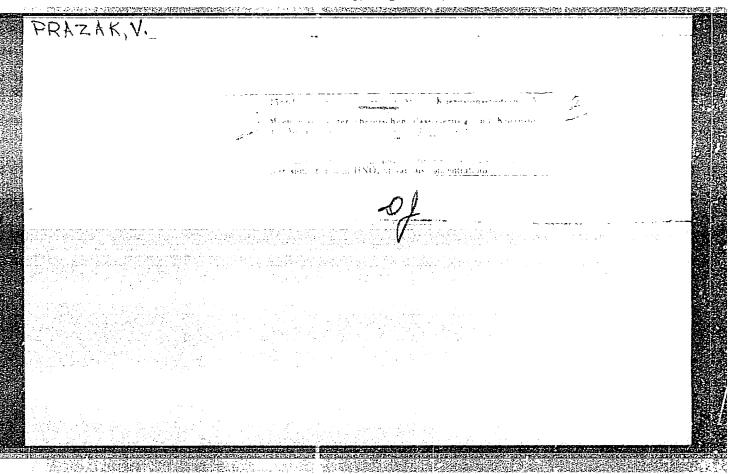
Source: EEAL LC Vol. 5, No. 10 Oct. 1956

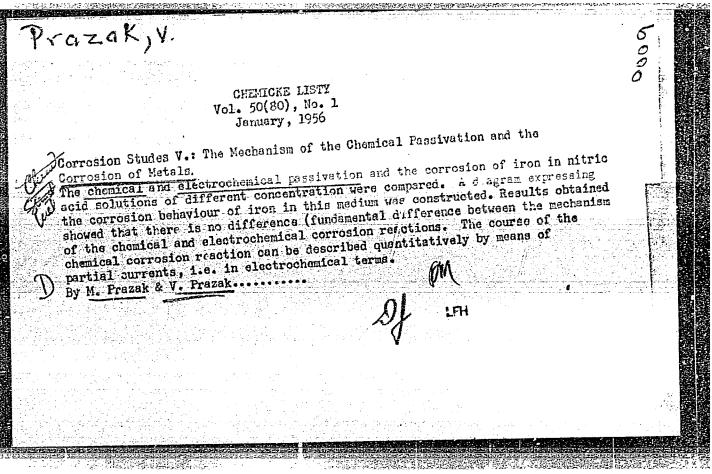


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PRAZAK, V.

Category: Czechoslovakia

B-12

Abs Jour: R Zh--Kh, No 3, 1957, 7688

Author : Prazak, M. and Prazak, V.

Inst : Not given

Title : Investigation of Corrosion. II. The Effect of the Electrical Proper-

ties of the Electrode on the Measurement of the Potential During Polarization with an Intermittent Current. III. Anode Passivation of Iron

and Cathode Passivation of Magnetite.

Orig Pub: Chem. Listy, 1955, Vol 49, No 3, 294-301; No 8, 1139-1143 (published in

Czech); Sb. Chekhosl. Khim. Rabot, 1956, Vol 21, No 1, 63-72, 73-78

(published in German with a Russian summary)

Abstract: II. With a view towards the investigation of the effect of the electri-

cal properties of the interface between a solid electrode (e) and an electrolyte on the intrinsic electrochemical potential (EP) of E during polarization in an intermittent current, the appropriate oscillograms have been recorded for anode-polarized Sb and Al electrodes and 0.25M NaHCO3 and for an Fe electrode in 0.1M NaNO2 as well as for specially

Card : 1/3 -20-

Category: Czechoslovakia

B-12

Abs Jour: R Zh--Kh, No 3, 1957, 7608

selected electrical systems consisting of ohmic resistances (R) and capacitances (C), designed to simulate the system formed by the solid electrode and the electrolyte (the latter system was conceived as a condenser, the plates of which are formed by E and the electrolyte; the dielectric is the oxide film on E). A comparison of the results obtained from measurements on the equivalent circuits with the data obtained from electrochemical measurements shows that during polarization by an intermittent current, the R and C of the interface markedly affect the EP of E. The changes in EP depend on the RC product and are particularly large for passive E covered with strongly insulating films.

III. The oscillographic method has been used in the investigation of the cathodic passivation of magnetite (I) and of the anodic passivation of Fe in IN  $_2$ SO $_1$ . The potential of the passive layer formed in anodic passivation corresponds to the equilibrium FeO/Fe $_2$ O $_3$ . In cathodic passivation the potential of the passive layer corresponds to the equilibrium Fe/FeO. At values of the potential lying in the region

Card : 2/3

-21-

Category: Czechoslovakia

Abs Jour: R Zh--Kh, No 3, 1957, 7688

B-12

between the equilibria Fe/FeO and FeO/Fe<sub>2</sub>O<sub>3</sub>, both Fe and I dissolve in H<sub>2</sub>SO<sub>4</sub>. At more negative potentials, Fe<sup>3</sup> is stable; I is stable at more positive potentials. However, even in the passive state Fe and I dissolve slowly; the corrosion currents correspond to the diffusion rate or to the rate of the solid phase reaction. For Communication I see RZhKhim, 1956, 50361.

Card : 3/3

-22-

### PRAZAN, Frantisek

Ninth International Congress of the European Brewing Convention in Brussels. Kvasny prum 9 no.8:186-187 Ag '63.

1. Podnikovy reditel Prazskych pivovaru, n.p., Praha.

BOCIAN, Jerzy; PRAZANOWSKI, Miroslaw; WAWRZYNSKA, Jadwiga; STASIK, Miroslaw

A case of discastlosis with symptoms of Addison-Biermer's anemia in lambliasis. Wiad. parasyt. 7 no.3:579-585 '61.

(LAMBLIASIS diag)

(ANEMIA PERNICIOUS diag)

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MARKIEWICZ, Kazimierz, dr. med.; PRAZATOWSKI, Miroslaw; CHRZATOWSKI, Zenon; BOGDANSKA, Helena

Symptomatic polycythemia in renal cancer. Pol. tyg. lek. 17 no.48:1859-1860 30 N\*64.

1. Z Oddzialu "A" Chorob Wewnetrznych Szpitala im. M. Pirogona w Iodzi (ordynator: dr. med. Kazimierz Markiewicz).

KUNSKI, Henryk; PRAZANOWSKI, Miroslaw

A case of reticulosarcoma with intravital observations. Polskie arch. med. wewn. 29 no.7:959-964 1959.

1. Z Oddzialu Wewnetrznego Szpitala im. M. Pirogowa w Lodzi Ordynator: dr med. E. Panasiuk.

(SARCOMA RETICULUM CELL, case reports)
(NASOPHARYNX, neopl.)

PRAZDNIKOV, A.V., kand. tekhn.nauk, red.; BYSTRITSKAYA, V.V., red.
izd-va; UVAROVA, A.F., tekhn. red.

[Dynamics of machines]Dinamika mashin; sbornik statei. Moskva, Mashgiz, 1963. 278 p. (MIRA 16:8)

1. Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin i mekhanismov. 3, Moscow, 1961.

(Machinery, Kinematics of)

KCZHEVNIKOV, S.N.; Presention, A.V., rand. tekhn. no.k; SMOLYARITSETY, E.A., inch.

Using an electronic model in selecting optimal parameters of a high-speed mechanism with a throttle servomechanism. Gior. mash. i gidr. no.1.94-162 165. (MRA 18:12)

1. Dnepropetrovskiy institut chernoy metallurgit.
2. Chlen-korrespondent AN UkrSSR (for Kozbevnikov).

PRAZDNIKOV, A.V., kand. tekhn. nauk

Dynamic synthesis of a hydraulic mechanism with a proportioning pump. Gidr. mash. i gidr. no.1:103-110 '65.

(MIRA 18:12)

1. Dnepropetrovskiy institut chernoy metallurgii.

KOZHEVNIKOV, S.N.; CHERRIYSHEV, A.N., kand.tekhn.nauk; PRAZDNIKOV, A.V., inzh.

Experimental investigation of cold pipe-rolling mills. Izv.
vys.ucheb.zav.; chern.met. no.6:91-98 Je '58. (MIRA 12:8)

1. Dnepropetrovskiy metallurgicheskiy institut. 2. Chlenkorrespondent AN USSR (for Kozhevnikov). Rokonondovano
lonfedroy avtomatizatsii i teorii mekhanizmov i mashin Dnepropetrovskogo metallurgicheskogo instituta.
(Rolling mills) (Pipe, Steel)

KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V.

Dynamics of the hydraulic drive of the feeding carriage travel mechanism on Pilgrim rolling mills. Izv. vys. ucheb. zav.; chern. met. no.8:188-194 60. (MIRA 13: 9)

1. Dnepropetrovskiy metallurgicheskiy institut. (Rolling mills-Hydraulic driving)

S/198/63/009/001/005/006 D251/D303

AUTHORS:

Kozhevnykov, S.M., Prazdnikov, A.V. and Smolyanyts' kyy, E.A. (Dnipropetrovs'k)

TITLE:

A new edging mechanism for an automatic blooming mill

PERIODICAL:

Prykladna mekhanika, v. 9, no. 1, 1963, 86-93

The results of a recent All-Union conference on the automation of blooming mills showed that many institutes are greatly concerned with the designing of automatic blooming mills. The hookconcerned with the designing of automatic blooming mills. The hookedgers used in manual control are not suitable for automation, and a new edger must be designed. It is shown that the working part of the synthesis mechanism should be at an angle and that during the entire operation the movement of the ingot is controlled by the executive unit. Such an edger will fulfil the requirement of minimum displacement of the manipulator rulers for edging ingots of various heights, if it has two leading units. The reduction of edging time is discussed, with reference to the 'Sack' and 'Shloemann' blooming mills, in which two hook edgers on the left and right rulers before mills, in which two hook edgers on the left and right rulers before Card 1/2

A new edging mechanism ...

S/198/63/009/001/005/006 D251/D308

the mill are used, and the kinematics of an ideal blooming regime are discussed. The designing of actual edging mechanisms will depend on the number of regimes required for the mill. There are 6 figures.

ASSOCIATION:

Dnipropetrovs kyy instytut chornoyi metalurhiyi

(Dnipropetrovs'k Institute of Ferrous Metallurgy)

SUBMITTED:

April 16, 1962

Card 2/2

KOZHEVNIKOV, S. N. [Kozhevnykov, S. M.] (Dnepropetrovsk); PRAZDNIKOV,
A. V. [Prazdnykov, A. V.] (Dnepropetrovsk); SMOLYANITSKIY, E. A.
[Smolianyts'kyi, E. A.] (Dnepropetrovsk)

New manipulation mechanism for an automatic blooming mill. Prykl. mekh. 9 no.1:86-93 163. (MIRA 16:4)

1. Dnepropetrovskiy institut chernoy metallurgii.

(Rolling mills)

PRAZDNIKOV, A. V., Cand of Tech Sci — (diss) "Dynamics of Dropping Apparatus for Pilger Mills," Dnepropetrovsk, 1959, 18 pp (Dnepropetrovsk Metallurgical Institute im Stalin) (KL, 4-60, 120)

PYTASZ, Marian; GARBULINSKI, Tadeusz; KURBIEL, Andrzej; PRAZAK, Mieczyslaw

Electrolytes and urinary reactions in the light of experiments and statistical analysis. Acta physiol. polon. 11 no. 2:251-265 Mr-Ap '60.

1. Z Zakladu Chemii Fizjologicznej WSR we Wrocławiu, Kierownik: z-a prof. dr F. Wandokanty; Z Zakladu Fizjologii AM we Wrocławiu, Kierownik: prof. dr A. Klisiecki; Z Zakladu Matematyki WSR we Wrocławiu, Kierownik: doc. dr R. Hochenberg.

(ELECTROLYTES urine)

# PRAZDNIKOV, A.V.

Dynamics of the main line of a Pilgrim mill including the hitting of the cylindrical hillet against the rolls. Izv.vys.ucheb.zav.; chern.met. no.4:184-191 '61. (MIRA 14:4

1. Dnepropetrovskiy metallurgicheskiy institut.
(Rolling mills)

BARU, A.V.; BOLOTINA, O.P.; PAVLOV, B.V.; PRAZDNIKOVA, N.V.; SAF'YANTS, V.I.; CHEBYKIN, D.A.

Influence of alimentary excitability, and the size and quality of alimentary reinforcement on the conditioned reflex activity of representatives of some classes of vertebrates (fishes, birds, and mammals). Trudy Inst. fiziol. 9:274-284 '60. (MIRA 14:3)

1. Laboratoriya sravnitel'noy fiziologii vysshey nerwnoy deyatel'nosti (zaveduyushchiy - B.V.Pavlov) Instituta fiziologii im. I.P.Pavlova. (CONDITIONED RESPONSE) (NUTRITION) (VERTEBRATES)

L 2693-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) ACCESSION NR: AT5022816 UR/3165/65/000/001/0094/0102 AUTHOR: Kozhevníkov, S. N. (Corresponding member AN UkrSSR); Prazdníkov, (Candidate of technical sciences); Smolyanitskiy, E. A. TITLE: Selection of optimal parameters for a high-speed throttle servo control mechanism with an electronic model SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Gidravlicheskiye mashiny i gidroprivod, no. 1, 1965. Issledovaniye gidravlicheskikh ustroystv i sistem (Investigation of hydraulic devices and systems), TOPIC TAGS: servomechanism, optimal control, mathematic model, machine tool 7 ABSTRACT: The present paper considers the problem of utilizing a servo throttle hydraulic drive with rigid negative feedback, operating on water, and using remote manual or automatic control for the mechanisms of heavy high-speed machines. The drive should be capable of performing the following functions: a) Operate the mechanisms controlled by it in a broad range of speed; in this case, the maximum speed may reach one or several meters per second. b) Assure the braking of the moving parts of the mechanism within the limits specified by Card 1/2

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ACCESSION NR: AT5022816

the conditions of endurance and durability of the mechanism. c) Carry out the prescribed displacement of the piston to an accuracy of from one to several millimeters. d) Assure the stability of the system along the entire range of changing speeds. The data obtained from processing the oscillograms obtained show good agreement between the data of the electronic and the physical models, and, therefore, a good approximation of the mathematical description of the processes in the high-speed servo drive. It is shown that with the parameters selected, the maximum pressures arising in the cylinder cavities during braking exceed their rated values only slightly. Orig. art. has: 5 figures, 1 table, and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

2/2

ACCESSION NR: AT4018284

S/2905/63/000/96-/0019/0027

AUTHOR: Kozhevnikov, S.N.; Prazdnikov, A.V.; Miroshnichenko, B.I.

TITLE: Electronic simulation of dynamic processes in hydraulic mechanisms

SOURCE: AN SSSR. Institut mashinovedeniya. Teoriya mashin i mekhanizmov (Theory of machines and mechanisms), no. 96-97, 1963, 19-27

TOPIC TAGS: electronic model, simulation, electronic simulation, hydraulic mechanism, hydraulic prime mover, prime mover, hydraulic model

ABSTRACT: Hydraulic prime movers, in addition to electrical and pneumatic ones, are, presently beginning to be used more and more in the metallurgical industry. Equations for the transient processes in hydraulic systems were therefore investigated on an electronic model, by the Institut chernoy metallurgii AN Ukr SSR (Institute of Non-Ferrous Metallurgy AN Ukr SSR). The system included an automatic manipulator and a blooming mill tilter. These two parts are very complicated, because it is very difficult to automate them using electronic drives. An electronic device was therefore designed to simulate the equations for the hydraulic system. (See Fig. 1 of the Enclosure.) This device produced oscillograms showing the operation of the system. Although the data obtained for the entire investigation

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# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

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ACCESSION NR: AT4018284

were incomplete, they showed the wide possibilities of electronic models for solving similar problems. Orig. art. has: 5 figures and 10 equations.

ASSOCIATION: Institut mashinovedeniya AN SSSR (Institute of Mechanical Engineering AN SSSR)

SUBMITTED: 00

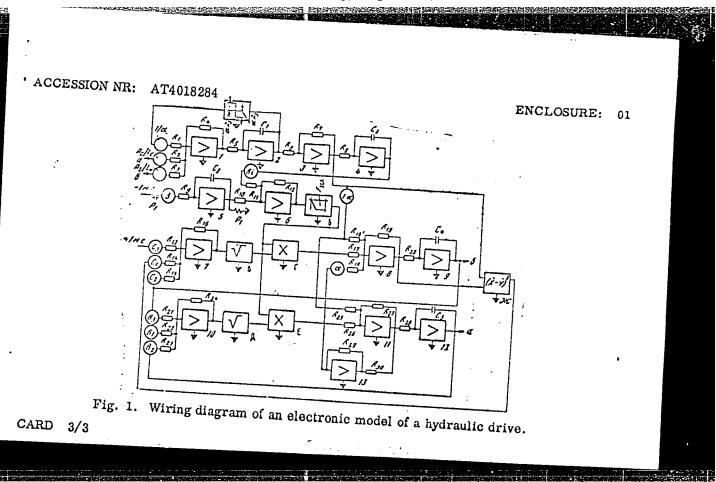
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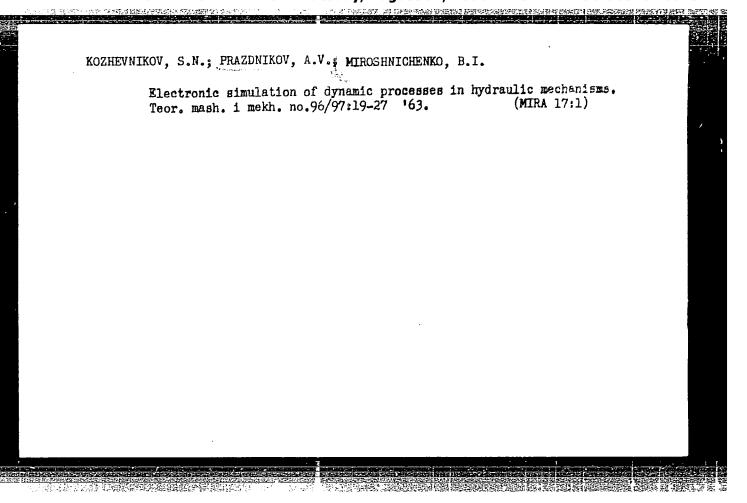
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SUB CODE: EC

NO REF SOV: 000

OTHER: 000





PRAZDNIKOV, A.V., inzh.

Law of hydraulic drive motion with power transmission from hydraulic accumulators. Izv.vys.ucheb.zav.; chern.met. no.8:70-80 Ag 158. (MIRA 11:11)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Power transmission) (Metalworking machinery)

KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V., inzh.; CHERNYSHEV, A.N., kand.tekhn. nauk; CRINBERG, S.D., inzh.

Possibilities of increasing the output of a pilgrim pipe rolling mill. Izv. vys. ucheb. zav.; chern. met. no.7:91-107 J1 '58.

1. Dnepropetrovskiy metallurgicheskiy institut. 2. Chlen-korrespondent AN USSR (for Kozhevnikov).

(Rolling mills)

KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V., kand.tekhn.nauk; LENSKIY, A.N.,inzh.; BOL'SHAKOV, V.I., inzh.

Investigating on an electron model the performance of the main line of a Pilgrim mill. Trudy Inst.chern.met.AN URSR 16:88-104 '62. (MIRA 15:12)

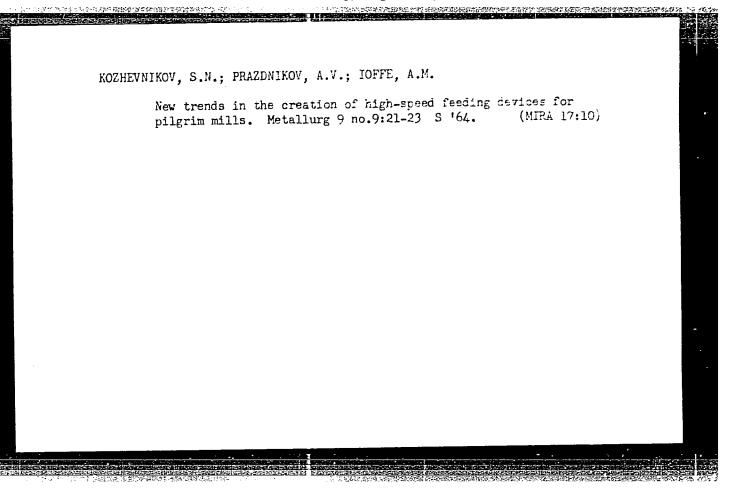
1. Chlen-korrespondent AN UkrSSR (for Kozhevnikov).
(Rolling mills)
(Electronic analog computers)

KOZHEVNIKOV, S.N.; PRAZDNIKOV, A.V., kand.tekhn.nauk; LOSHKAREV, V.I., inzh.

Automatic indicator of plunger position on a Pilgrim mill feed mechanism. Trudy Inst.chern.met.AN URSR 16:105-111 '62.

(MIRA 15:12)

1. Chlen-korrespondent AN UkrSSR (for Kozhevnikov). (Rolling mills) (Feed mechanisms)



ACC NR: AT7000712

SOURCE CODE: UR/0000/66/000/000/0045/0050

AUTHOR: Kozhevnikov, S. N. (Corresponding member AN UkrSSR); Prazdnikov, A. V. (Candidate of technical sciences); Ioffe, A. M. (Candidate of technical sciences); Fabrika, L. P. (Engineer)

ORG: None

TITLE: Use of electronic simulation for studying the hydropneumatic system of the feed mechanism on a pilger mill

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Gidroprivod i gidropnevmoavtomatika (Hydraulic drive and hydropneumatic automation), no. 2. Kiev, Izd-vo Tekhnika, 1966, 45-50

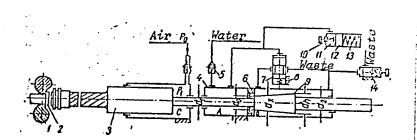
TOPIC TAGS: rolling mill, pneumatic servomechanism, hydraulic device, computer application, analog computer

ABSTRACT: Electric simulation is used for studying the operation of the feed mechanism on a pilger mill. This method consists of using an analog computer for solving the equation of motion of the moving masses in the mechanism. Shown in the figure is a feed mechanism for production of seamless tubes 219-325 mm in diameter. The unit contains a hydraulic brake consisting of housing 4 with diaphragm 6. Inside the housing is tapered plunger 9 with a rod rigidly connected to plunger 3. The entire braking system is filled with water which is fed in at a pressure of  $58.9 \cdot 10^4$  N/m<sup>2</sup>.

Card 1/3

#### ACC NR: AT7000712

Rolls 1 move sleeve with mandrel 2 as well as plungers 9 and 3 from the extreme left-hand position toward the right. During this process, water from the main line flows through check valve 5 into cavities A and B. After completion of rolling, the moving masses are braked by com-



pressed air in chamber C and begin to move toward the left. On the return path, water from cavity B flows freely through valve 7 into the waste line until the end of the tapered plunger covers the diaphragm. At this point, the fluid pressure in chamber A rises and valve 7 cuts off the waste line. This begins braking of the moving masses. The fluid in chamber A is forced through the annulus between the tapered plunger and the diaphragm into chamber B and through pressure valve 14 into the waste line. Valve 14 is used for regulating braking conditions. The length of the braking path is adjusted by using screw 10 for setting piston 12 in measuring unit 11. When plunger 9 enters diaphragm 6, piston 12 is moved by fluid pressure to the extreme right-hand position. This action delivers a fixed quantity of fluid to

Card 2/3

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDF

CIA-RDP86-00513R001342

ACC NR: AT7000712

the cylinder of measuring unit 11 without resistance, so that there is no braking force on a given section of the braking path. When piston 12 stops in the extreme right-hand position, braking force develops in the hydraulic braking system. After completion of braking at the beginning of the rolling process, spring 13 returns piston 12 to the original position while spring 8 returns slide valve 7 to the neutral position. Electronic simulation was used for studying motion of the masses in this mechanism as a function of their magnitude, the working capacity of the feed mechanism was determined and operation of the hydraulic brake was checked with variations in parameters. The program included simulation of both the acceleration and braking of the moving masses. The resultant data show that an increase in air pressure considerably reduces the operating cycle of the mechanism accompanied by a sharp increase in deceleration of the moving masses past the permissible value. An increase in the gap between the tapered plunger and the diaphragm to more than 0.4 mm results in an excessive final velocity of the moving masses during braking. Repair measures are called for when the clearance reaches this limiting value. The given data agree with those of dynamic computation. Orig. art. has: 5 figures.

SUB CODE: 13/ SUBM DATE: 29Jun66

Card 3/3

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

PRAZ DNIKOV, G. (g. Nikolayevsk-na-Amure, Khabarovskiy rayon)

Rare guests. Sov. profsoiuzy 6 no.6:73 Je '58. (MIRA 11:7)

1. Predsedatel' gorkoma profsoyuza rabotnikov gosudarstvennykh uchrezhdeniy.
(Nikolayevsk-on-Amur--Trade unions)

ADZHIMULAYET I.A.C FRAZDNIKOV, V.P.

Nerve and musice refractivity and effects of curars in dogs of various ages. Prody instancement pat. (izini. AMN SSSR 7.5.6 164.

1. Lab. Tatoridya vozrastnoy fizic bight it patologia (zev. ... prof. I.A. Arshavskiy) Enstituts normalinoy i patologiahaskoy tiziologia AMN SSSR.

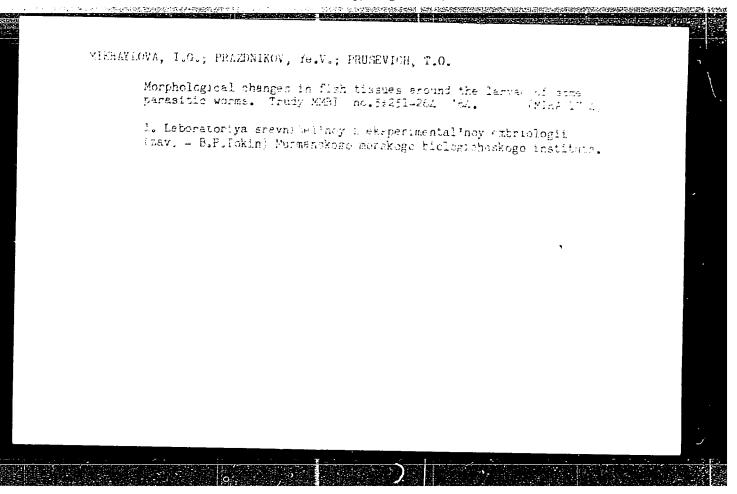
MIRHAYLOVA, I.G. (Murmansk); PRAZDNIKOV, Ye.V. (Murmansk)

"Electron microscope studies of sexual and somatic cells" by
I.B.Tokin. Reviewed by I.G.Mikhailova, E.V.Prazdnikov. Vest.
IGU 17 no.15:1/6-1/8 '62.

(CELLS) (ELECTRON MICROSCOPY) (TOKIN, I.B.)

(CELLS) (ELECTRON MICROSCOPY) (TOKIN, I.B.)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



PRAZDNIKOV, Ye.V.; GROKHOL'SKIY, G.A.; MIKHAYLOVA, I.G.

Characteristics of aseptic inflammation in the skin of white rats following repeated resections. Vest.LGU 16 no.9:140-144 '61. (MIRA 14:5)

(SKIN--INFLAMMATION)

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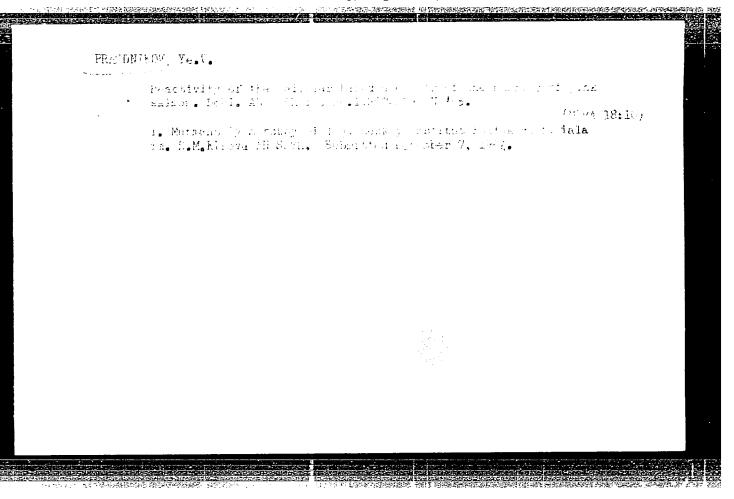
PRAZDNIKOV, Ye.V.; MIKHAYLOVA, i.d.

Some protective tiscue reactions of the embryon of rink salmon.
Dokl. AN SSCR 164 no.5:1164-1196 ( 165.

(MIRA 18:10)

1. Murmanskiy morskoy bislepteheskiy institut Keliskopa filiala
im. S.M.Kirova AN SSSR. Nubmatted December 7, 1964.

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



PRAZDNIKOV, Ye.V.; MIKHAYLOVA, I.G.; LUPPOVA, Ye.S.

Methodology for the establishment of the antibiotic activity of an inflammatory focus in man. Antibictiki 9 no.7:614-616 Jl '64. (MIRA 18:3)

1. Kafedra embriologii (zav. - prof. B.P. Tokin) Leningradskogo universiteta.

CIA-RDP86-00513R001342 "APPROVED FOR RELEASE: Tuesday, August 01, 2000  $\mathbf{B}$ USSR/General Siology. Cytology Abs Jour : lef hur-iol., % 13, 1950, 57117 : Prizdnikov Vo. V. : On the Relationship Between the Size of the Nerve Cells Nuclei and the Aysiolo ical Condition of an Innervated Organ. Author Tnst Orig Sub : Sb. n.uchn. rabet Sverds. otd. Vses, 6-va and tonov. istologov i empiologov, 1957, vyp, 1, Title : Observations ere conducted of the modifications in the karycolasm of neurons in the physiological hypertrophy of the innervited orian of uterine-valinal nerve an lia of hite featle rats in pre namer, of the effect of functions of the order to clirify the effect of functionism order to clirify the effect of functions. Abstr ct Card 1/2

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U.Sa/Gener'l Etology. Sytology

Abs Jour : sef hur-dol., No 13, 1-53, 27118

Ebstract "elements of the neuroblast type." Appoint changes of the nerve cells accommoded by whole quadations of elements of the neuroblast type are observed in the ganglia of the opening of the cirvex of costmated rate. A rapid responsible with a simultaneous diminuition of the number of elements of the neuroblast type takes place following the administration of sex hor ones to the castrated and als.

Card 2/2

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MIKHAYLOVA, I.G.; PRAZDNIKOV, Ye.V.

Inflamatory reactions in mussels (Mytilus edulis i.)
of the Barents Sea. Trudy MMBI no.4:208-220 '62.
(MRRA 15:11)

1. Laboratoriya sravnitel'noy i eksperimental'noy embriologii (24v. - B.P. Tokin) Murmanskogo morskogo biologicheskiy institut.
(Barents Sea.—Mussels)
(Inflammation)
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PRAZDNIKOV, Ye.V.; MIKHAYLOVA, I.G.

Characteristics of early inflammatory reactions in some Coelenterata (Staurophora mertensii Brandt, 1835, Surelia aurita L., Beroe cucumis Fabr.). Trudy MMBI no.4:221-228 (MIRA 15:11)

1. Laboratoriya sravnitel'noy i eksperimental'noy embriologii (zav. - B.P. Tokin) Murmanskogo morskogo biologicheskogo instituta.

(Coelenterata)

(Inflammation)

PKHZDNIKOVH, N.V.

PRAZDNIKOVA, N.V.; FIRSOV, L.A.

Interrelationship of the motor and vocal components of conditioned reaction in monkeys (capuchins) in the modification of one of the members of a chain stimulus. Trudy Inst.fiziol.no.2:306-315 '53.

(MIRA 7:5)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zaveduyushchiy - L.G. Voronin). (Monkeys--Conditioned response)

#### PRAZDNIKOVA, N.V. Control of the state of the sta

Conditioned digestive motor reflexes and conditioned inhibition in fish. Trudy Inst.fiziol. no.2:370-383 53. (MIRA 7:5)

 Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zaveduyushchiy - L.G. Voronin). (Conditioned response) (Fishes--Physiology)

PRAZINIKOVA, N.V.

Delayed conditioned reflexes in fishes. Trudy Inst. fiziol. 10:
273-283 '62 (MIRA 17:3)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti (zav. - B.V. Pavlow) Instituta fiziologii imeni Pavlova AN SSSR.

# PRAZDNIKOVA, N.V.

Method of investigation of motor-feeding conditioned reflexes in fish. Zh. vysshei nerv. deiat. 3 no.3:464-468 May-June 1953. (CIML 25:4)

1. Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences USSR.

## PRAZDNIKOVA, N.V.

Conditioned motor food responses to a chain of stimuli in fish.

Zh. vys. nerv. deiat. 5 no.6:901-911 N-D '55. (MIRA 9:3)

1. Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'
nosti Instituta fiziologii imeni. I.P. Pavlova Akademii nauk SSSR.
(REFIEX, CONDITIONED,
digestive reflexes to chain of stimuli in fish)

PRAZDNIKOVA, N.V., kand.biol.nauk

 Laboratoriya sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti Instituta fiziologii imeni I.P. Pavlova AN SSSR. (Fishes--Physiology) (Conditioned response)